

## ABSTRACT

A steering apparatus for a vehicle calculates an assist force  $F1$  corresponding to a steering torque  $T$  of a driver on the basis of a table shown in Step 605 in such a manner that the assist force  $F1$  changes in proportion to the steering torque  $T$ , and further calculates a coefficient  $Kt$  corresponding to the absolute value of an actual lateral acceleration  $Gy$  on the basis of a table shown in Step 610. The apparatus calculates a final assist force  $F$  through multiplication of the assist force  $F1$  by the coefficient  $Kt$ , and controls an electric motor of a steering actuator so as to generate the final assist force  $F$  for the steering operation of the driver. As a result, when the absolute value of the actual lateral acceleration  $Gy$  is not less than a value  $Gyth$ , the final assist force  $F$  decreases with an increase in the absolute value, whereby abrupt steering operation by the driver can be avoided.